

14th International Conference on Pressure Vessel Technology**Preface**

The 14th International Conference on Pressure Vessel Technology (ICPVT-14) was held in Shanghai on 23rd to 26th September 2015. The ICPVT Conference series, as the main activity of the International Council on Pressure Vessel Technology, is known to be the outstanding international forum for scientists, engineers and industrialist to discuss diverse engineering and science topics related to pressure vessel and piping technologies for the process and energy industries. This is the 14th in the series with the first being in Delft in 1969 continuing in San Antonio, Tokyo, London, San Francisco, Beijing, Dusseldorf, Montreal, Sydney, Vienna, Vancouver, Jeju, London and Shanghai.

The main theme of ICPVT-14 was “Pressure Vessel Technology for better life”. The conference continued the tradition to cover the worldwide development of pressure vessel technology and focused on the energy, environment and safety challenges that are closely related to our life, and was featured with a number of plenary and session keynote lectures covering a wide range of contemporary topics of pressure vessel technology. 185 papers and 37 posters were presented over the three days. More than 500 participants from 18 countries attended the conference.

The conference was aiming for the future of the technology and life. In the first day of the conference, a variety of topics were discussed by government officers and regulators, senior researchers and engineers, and managers from key industries in the forum on the “Future Opportunities”. The hot topics include the terms and conditions of market access, opportunities of pressure vessel technology in nuclear and coal chemical industries, and progress of standardizations around the world. To encourage young students, our future engineers, to be involved in the research and innovation of the technology relevant to pressure equipment, the Student Innovation Competitions were held in the second day of the conference. In the third day of the conference, the forum on Educating Future Engineers were held to discuss the implementation of pressure vessel technology in current engineering curricula and engineering accreditation.

The Conference was hosted by Chinese Pressure Vessel Institution and Asian-Oceanic Regional Committee of International Council on Pressure Vessel Technology, co-organized by East China University of Science and Technology, Hefei General Machinery Research Institute, China Special Equipment Inspection and Research Institute, Nanjing Tech University, Zhejiang University, Xi'an Jiaotong University, and co-sponsored by Zhejiang Jindun Holding Group Co., Ltd., Angang Steel Company Limited, TÜV Rheinland, Daming International Holding Limited, Ningbo Tiansheng Sealing Packing Co., LTD, Voestalpine Böhler Welding China. A number of organizations supported the event, including Chinese Mechanical Engineering Society, General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China, National Natural Science Foundation of China, China Petroleum & Chemical Corporation, PetroChina Company Limited, China National Offshore Oil Corporation, China National Nuclear Corporation, China Structural Integrity Consortium, Versailles Project on Advanced Materials and Standards, UK Forum for Engineering Structural Integrity.

On behalf of the organizing committee, we would like to thank the above organizations that made ICPVT-14, Shanghai possible. In particular we wish to thank Prof. Changjun Liu, Prof. Zhichao Fan and all volunteers for their passion to the symposium and efforts made to ensure the success of the event. Special thanks are due to distinguished speakers and all participants who make ICPVT-14 unique. Last but not least we greatly appreciate the assistance provided by Dr. Jian-Feng Wen and Dr. Yun Tu in editing of the manuscripts for the proceedings.

Shan-Tung Tu
Chairman of ICPVT-14
East China University of Science and Technology
Email: sttu@ecust.edu.cn

Xuedong Chen
Executive Chairman of ICPVT-14
Hefei General Machinery Research Institute
Email: chenxuedong@hgmri.com